

Fig. 1

FIRST PREFERRED EMBODIMENT

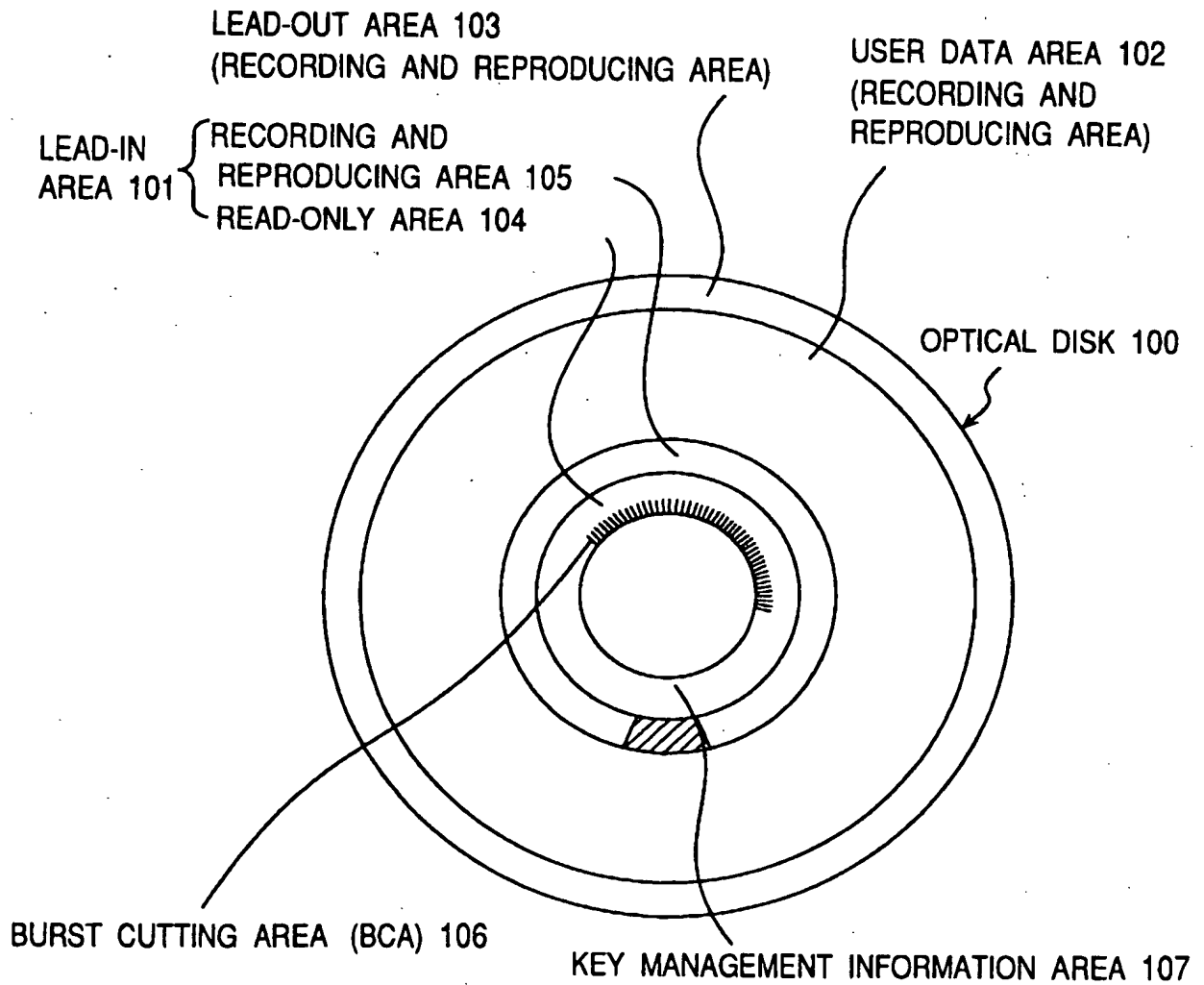


Fig.2A

SECTIONAL VIEW OF OPTICAL DISK
(BEFORE FORMATION OF BCA)

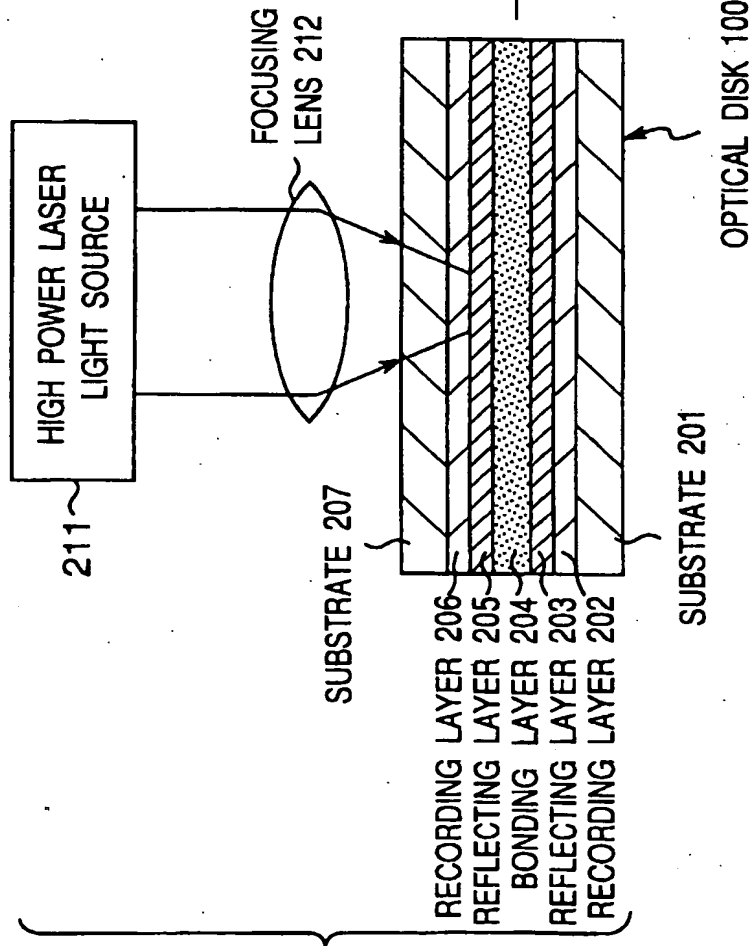


Fig.2B

SECTIONAL VIEW OF OPTICAL DISK
(AFTER FORMATION OF BCA)

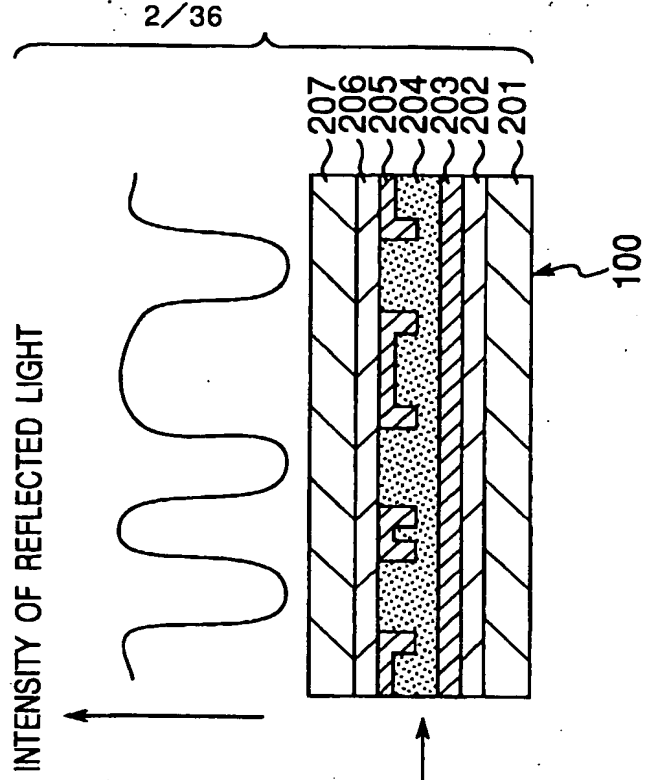
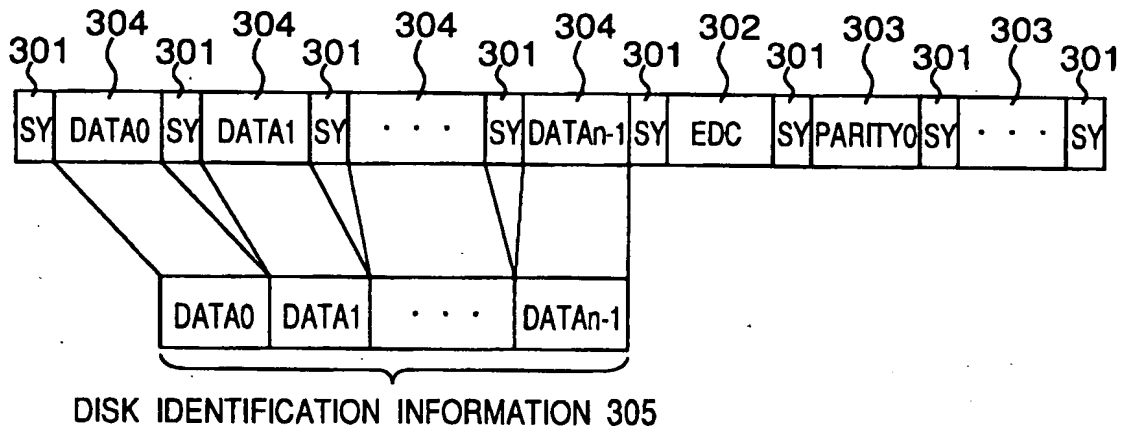


Fig.3

RECORDING FORMAT OF BCA 106

**Fig.4**

SECTOR STRUCTURE OF SECTOR DATA 401 IN USER DATA AREA 102

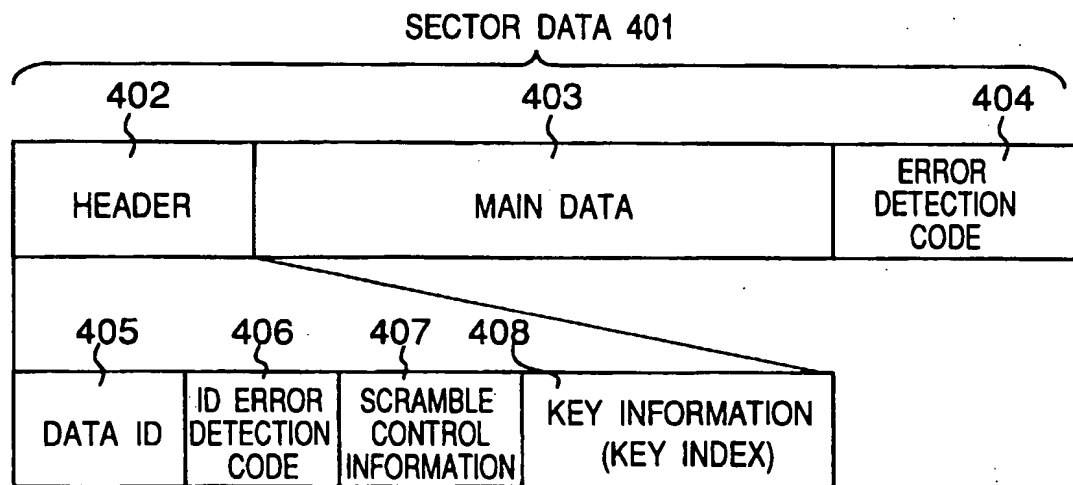


Fig.5

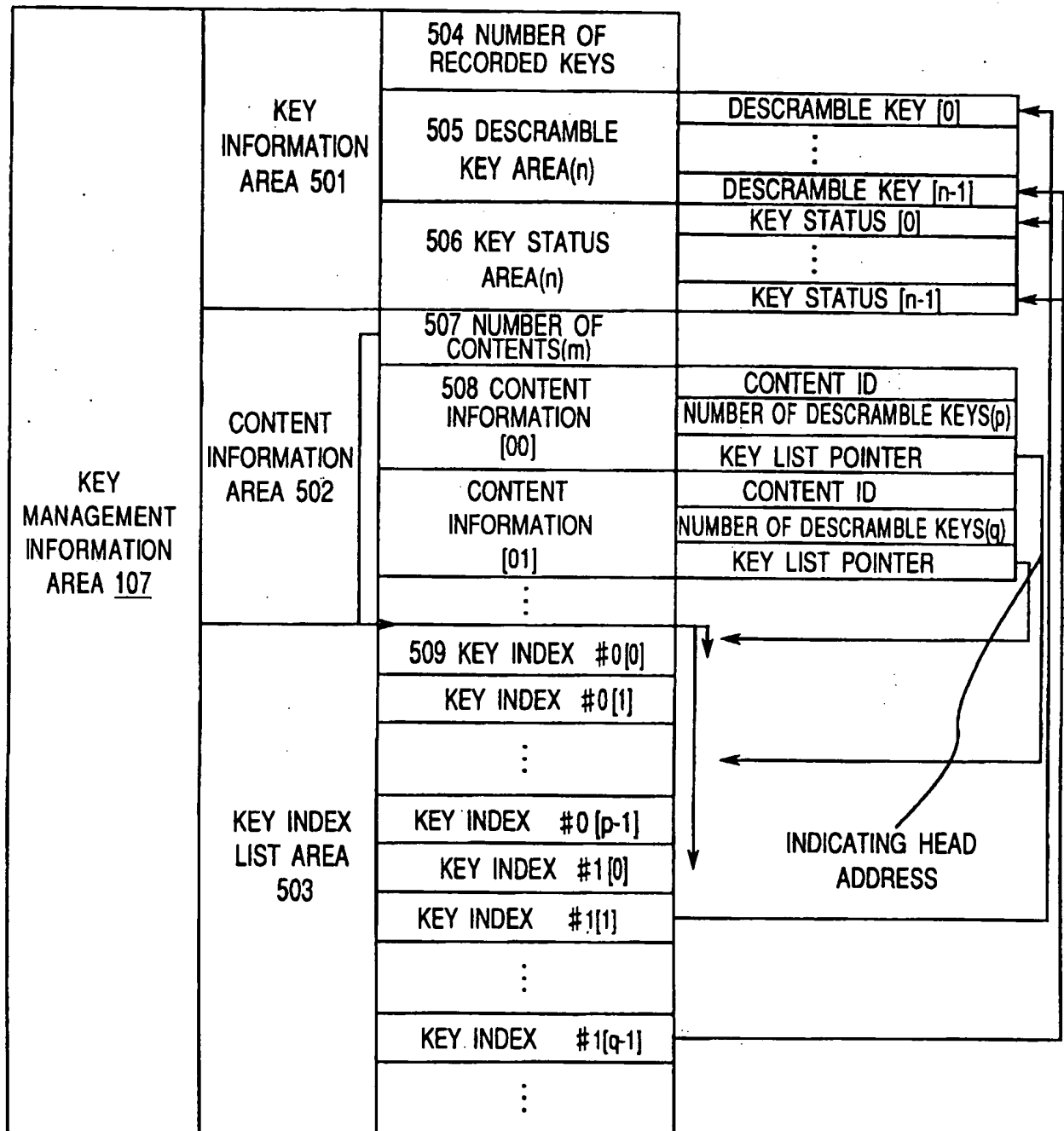


Fig. 6A

CASE WHERE DESCRAMBLE KEY IS RECORDED IN SECTOR DATA 401 (MODIFIED FIRST PREFERRED EMBODIMENT)

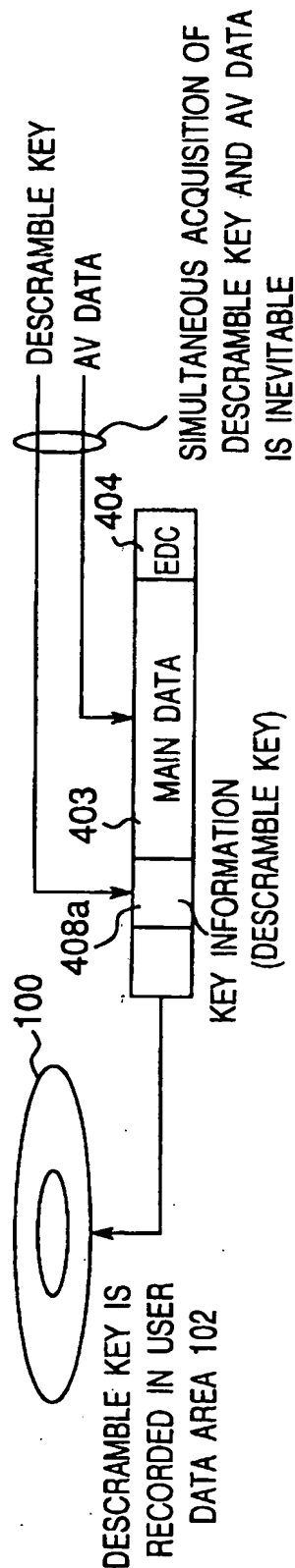
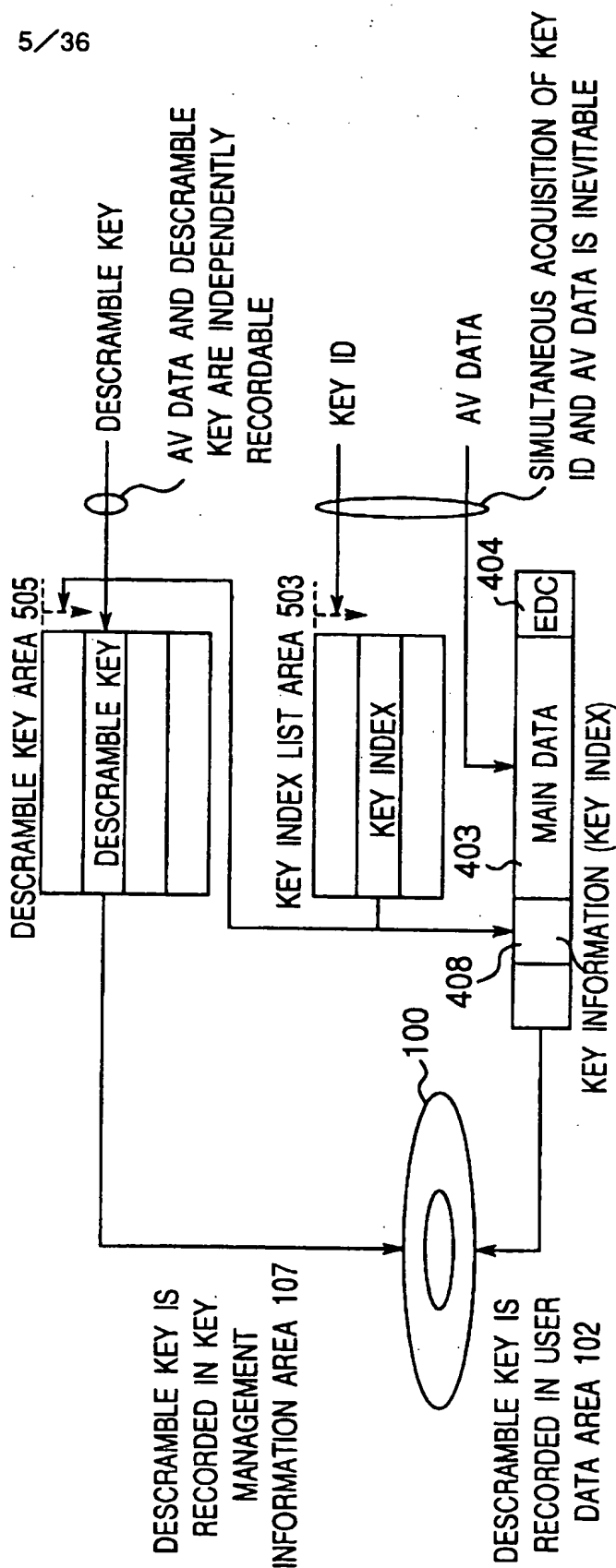


Fig. 6B

CASE WHERE KEY INDEX TO DESCRAMBLE KEY IS RECORDED IN SECTOR DATA 401 (FIRST PREFERRED EMBODIMENT)



SECOND PREFERRED EMBODIMENT

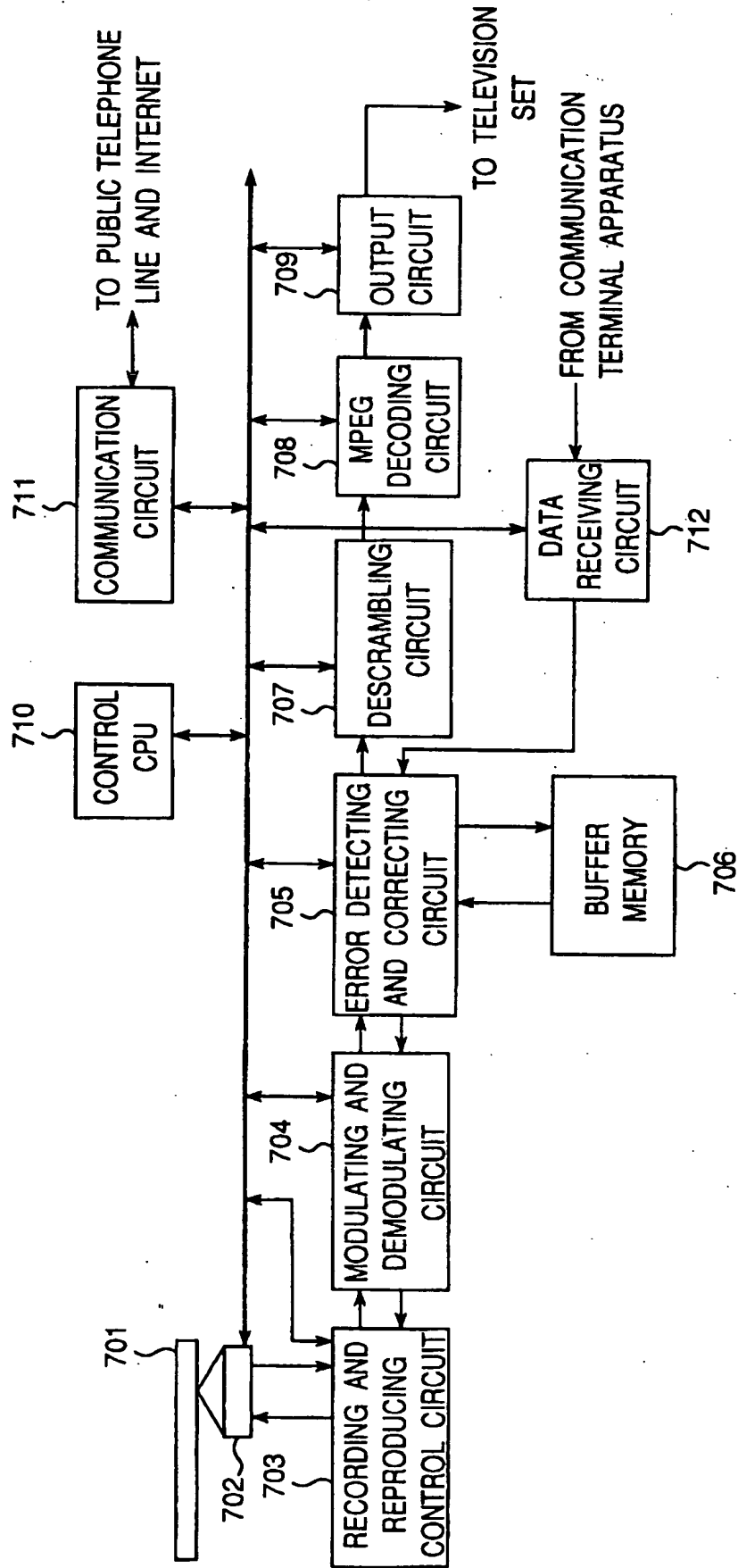


Fig.8

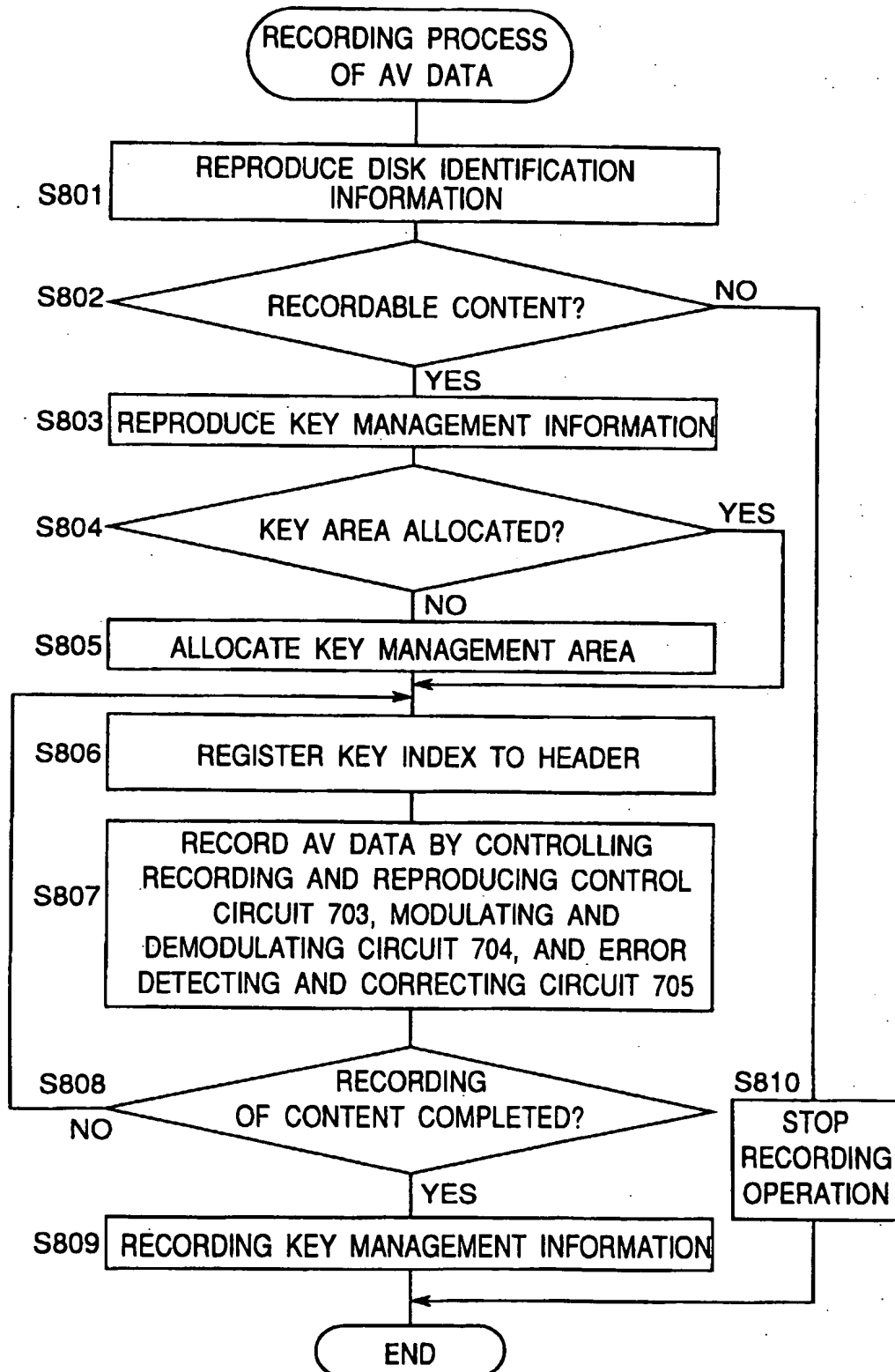


Fig.9

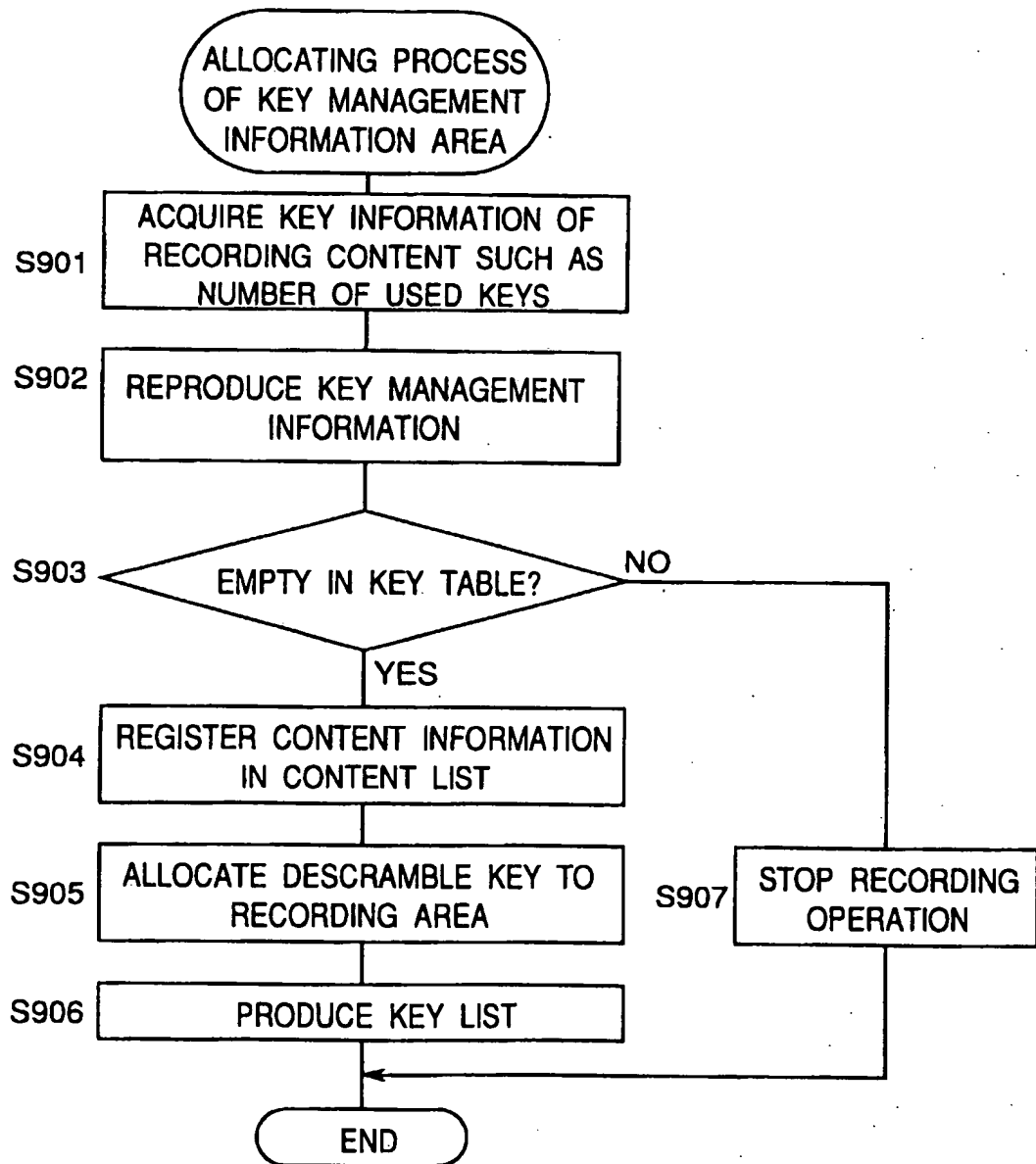


Fig.10

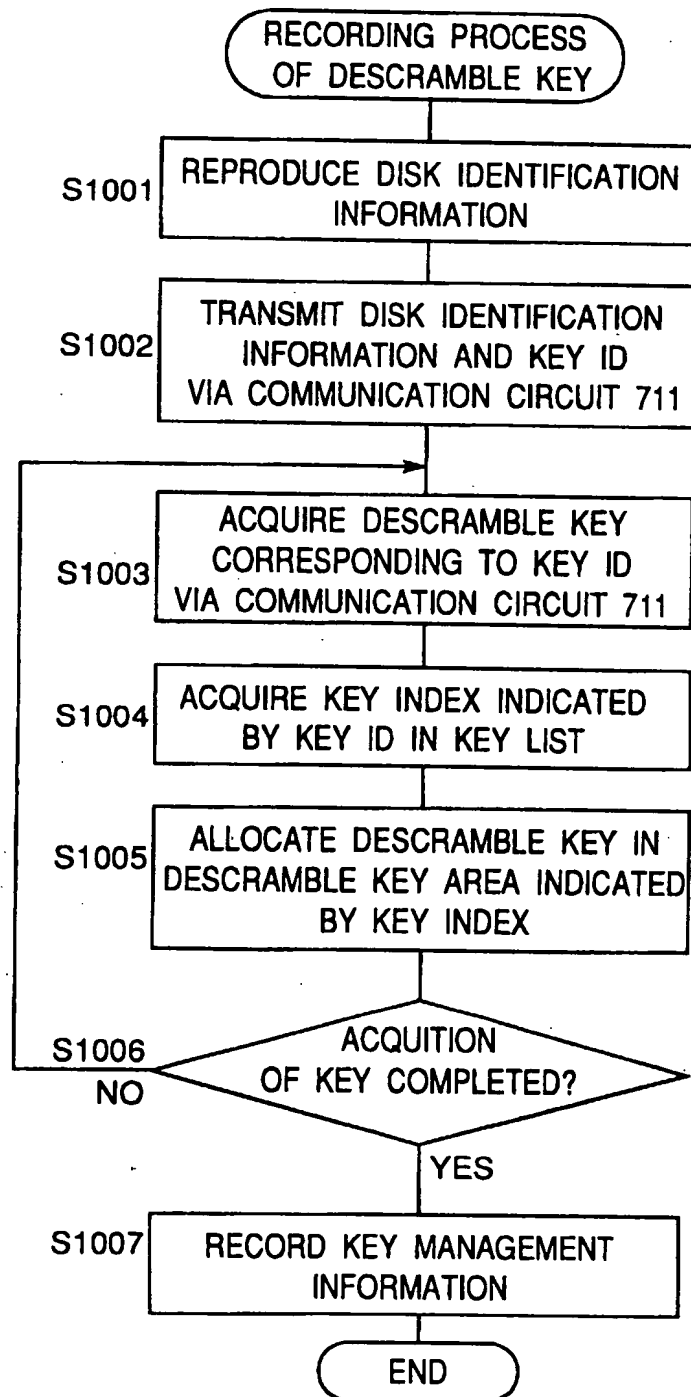


Fig. 11

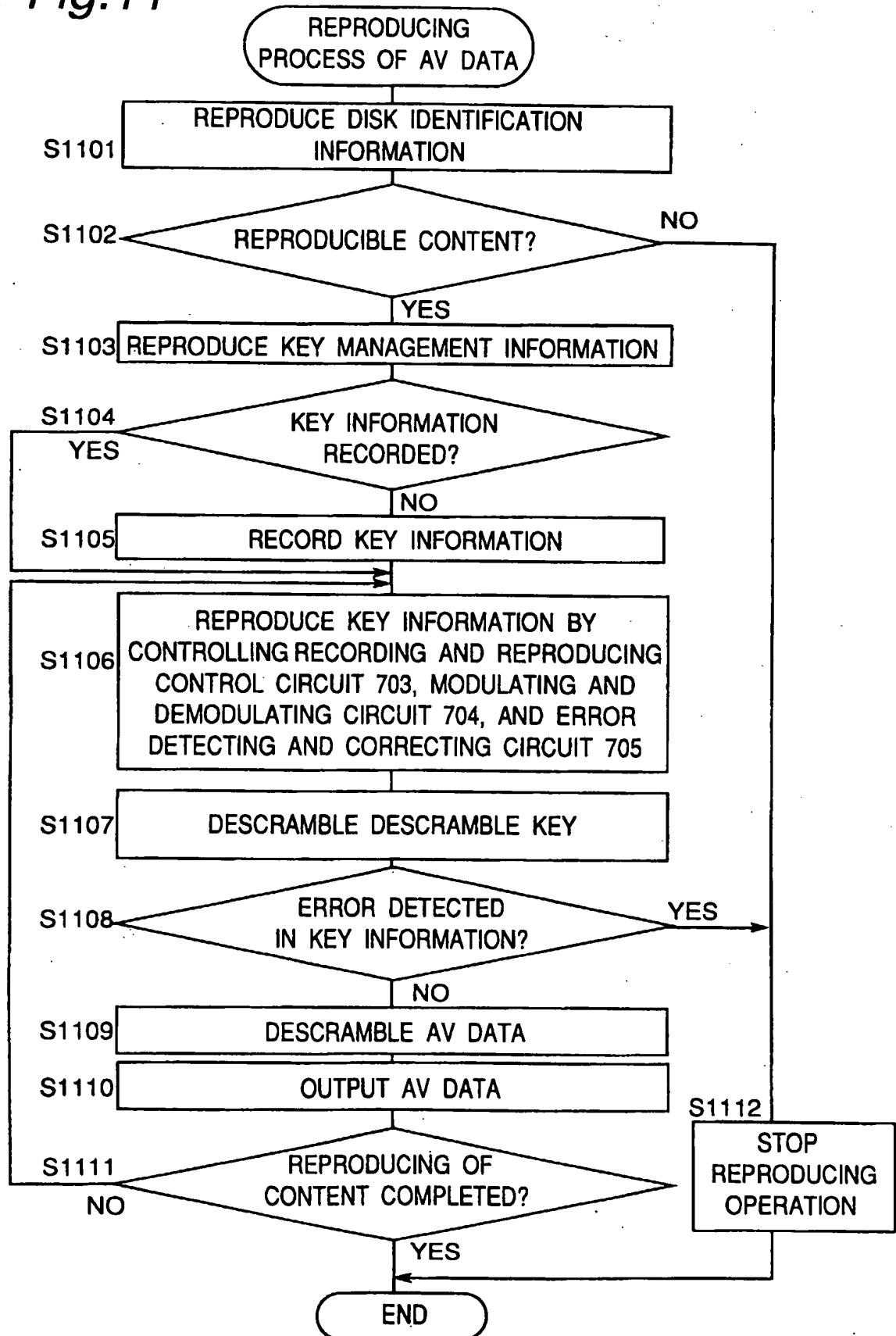


Fig.12

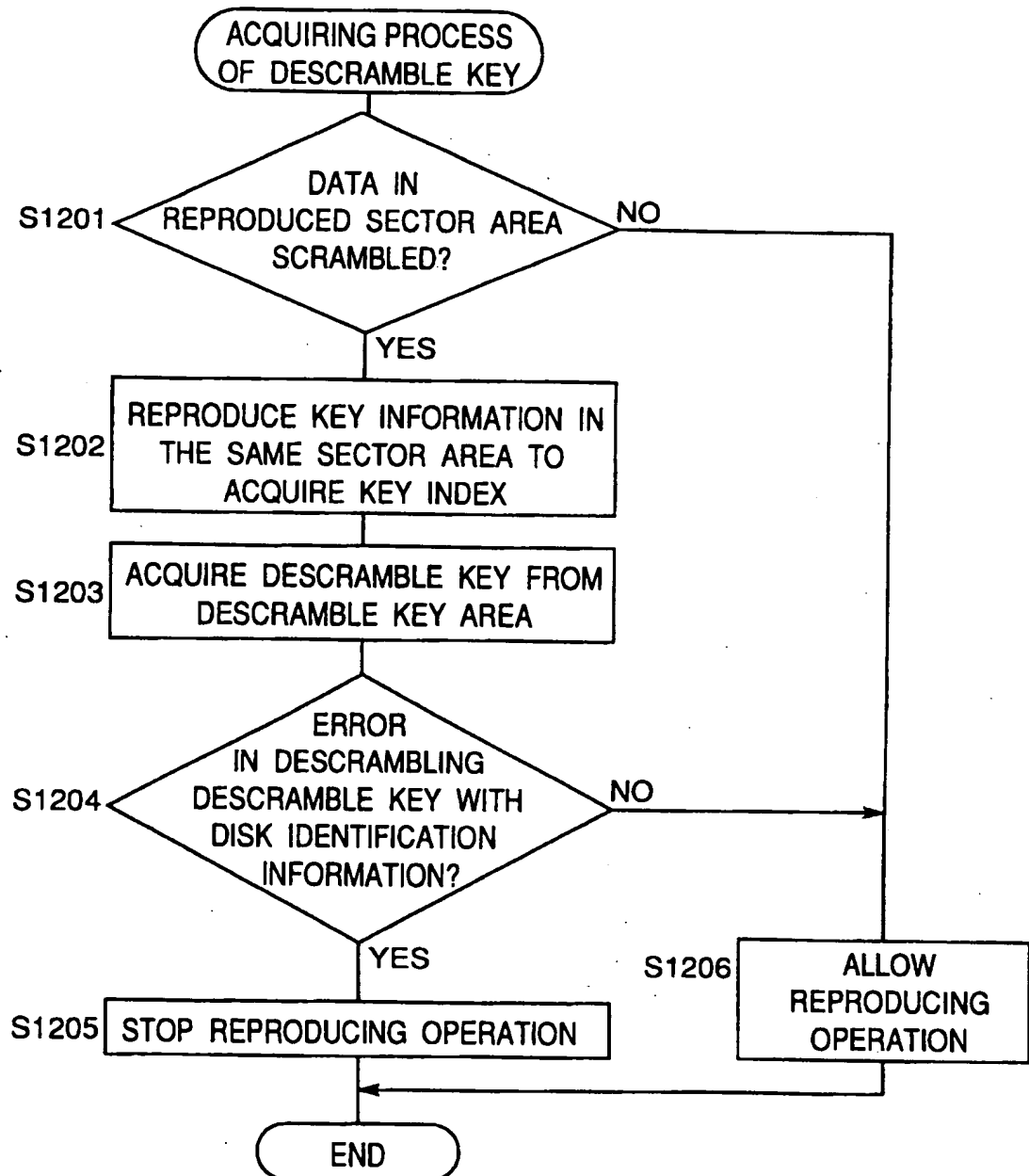
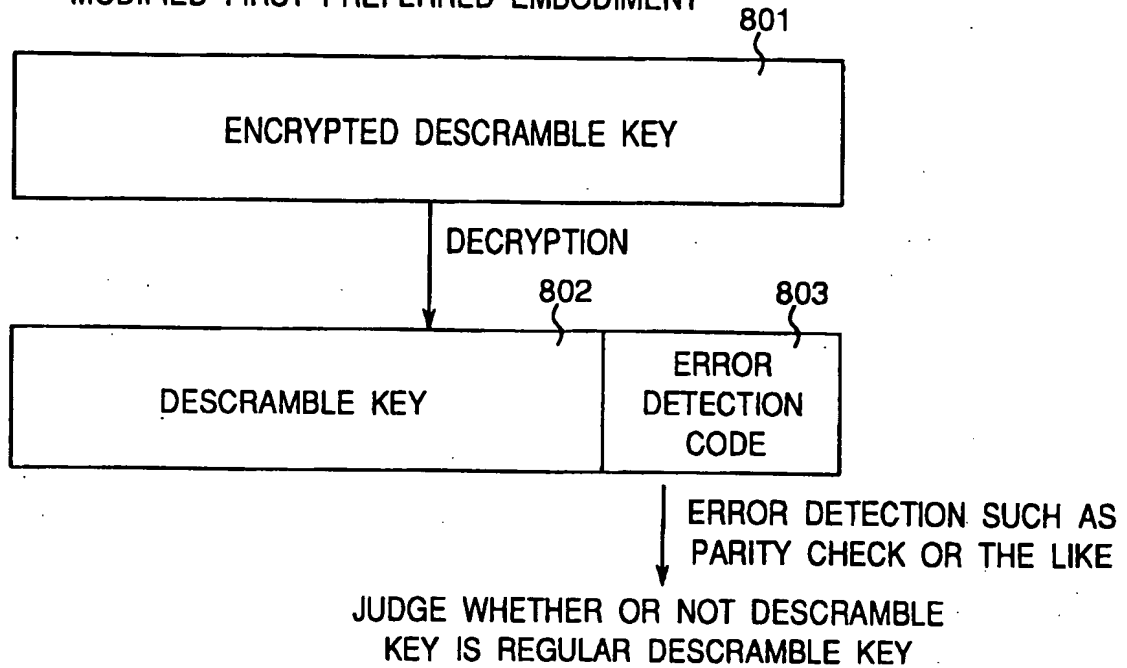


Fig. 13

MODIFIED FIRST PREFERRED EMBODIMENT

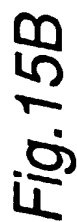
*Fig. 14*

MODIFIED FIRST PREFERRED EMBODIMENT

DESCRAMBLE AREA MANAGEMENT TABLE

1	START ADDRESS 1	END ADDRESS 1	DESCRAMBLE KEY 1
2	START ADDRESS 2	END ADDRESS 2	DESCRAMBLE KEY 2
:	:	:	:
n	START ADDRESS n	END ADDRESS n	DESCRAMBLE KEY n

Fig. 15A CASE WHERE REGION IDENTIFIER IS RECORDED IN RECORDING CONTENT REGION/RC1)



CASE WHERE REGION IDENTIFIER IS PREVIOUSLY RECORDED IN SHIPPING OPTICAL DISK



THIRD PREFERRED EMBODIMENT

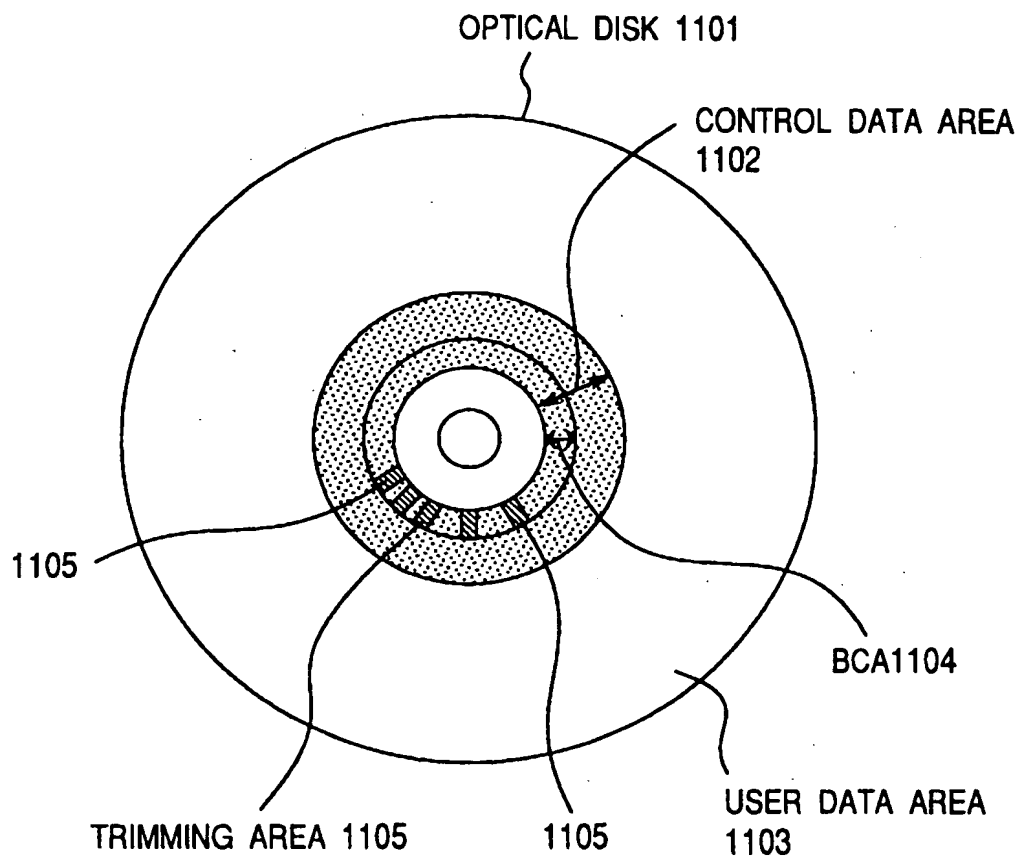


Fig.17

REPRODUCED SIGNAL WAVEFORM OF BCA REPRODUCING CIRCUIT 1401

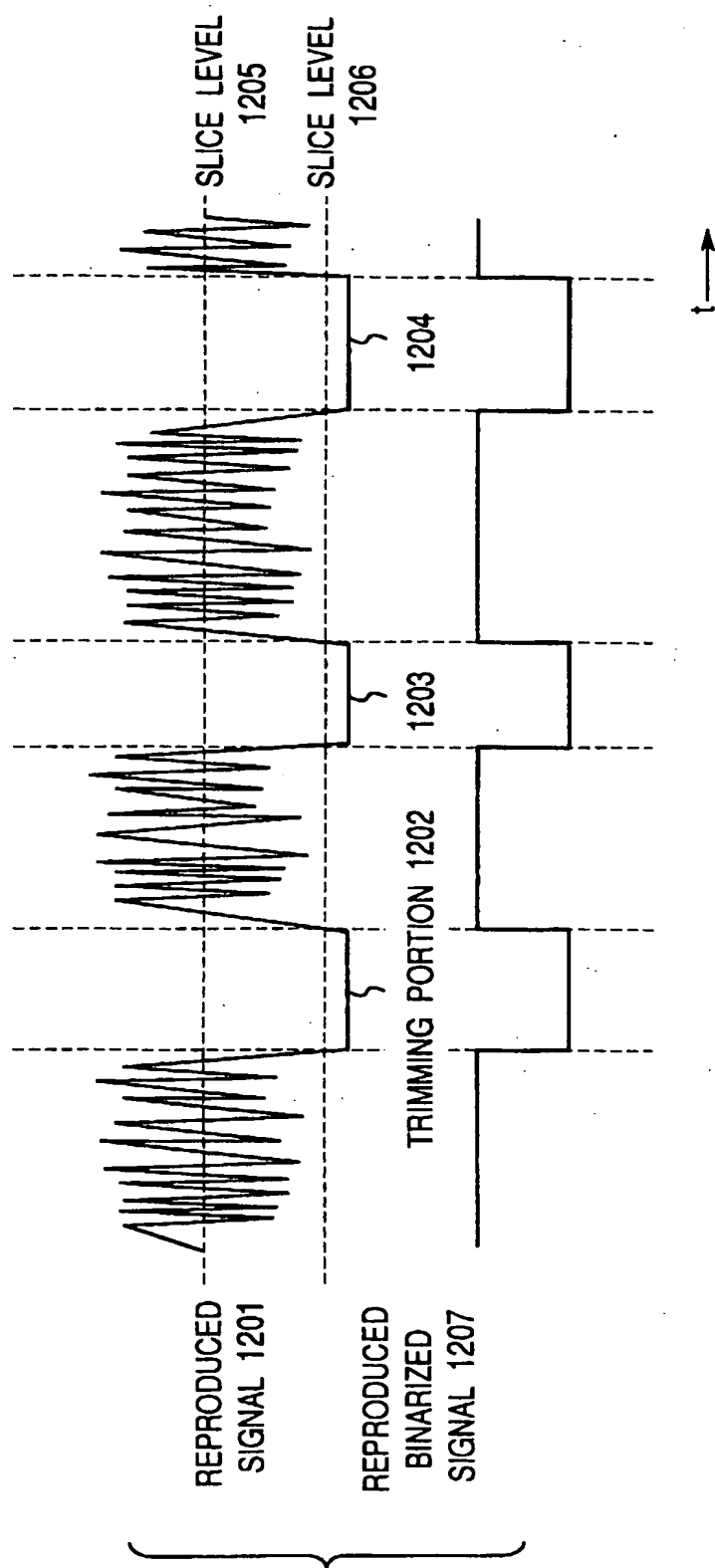


Fig. 18

BCA REPRODUCING CIRCUIT 1401

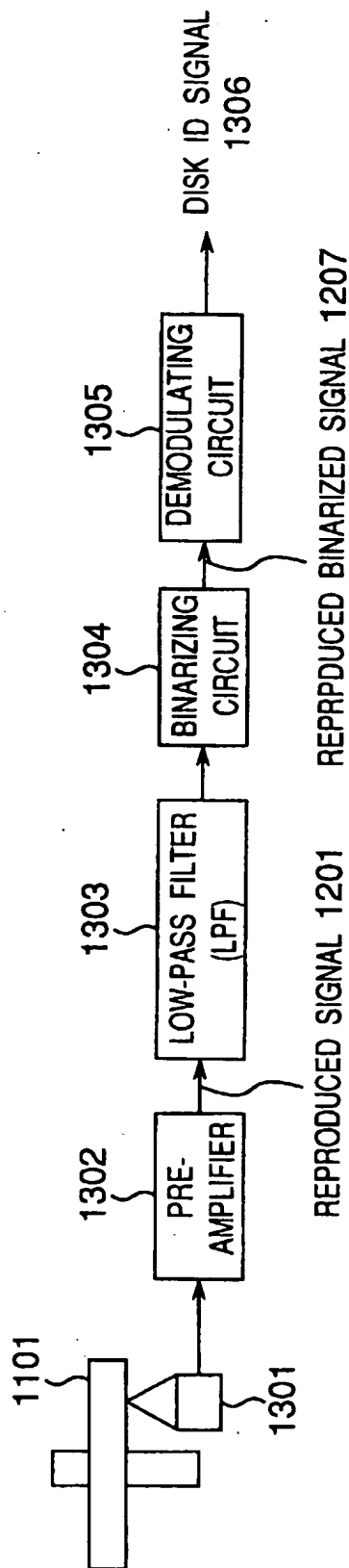
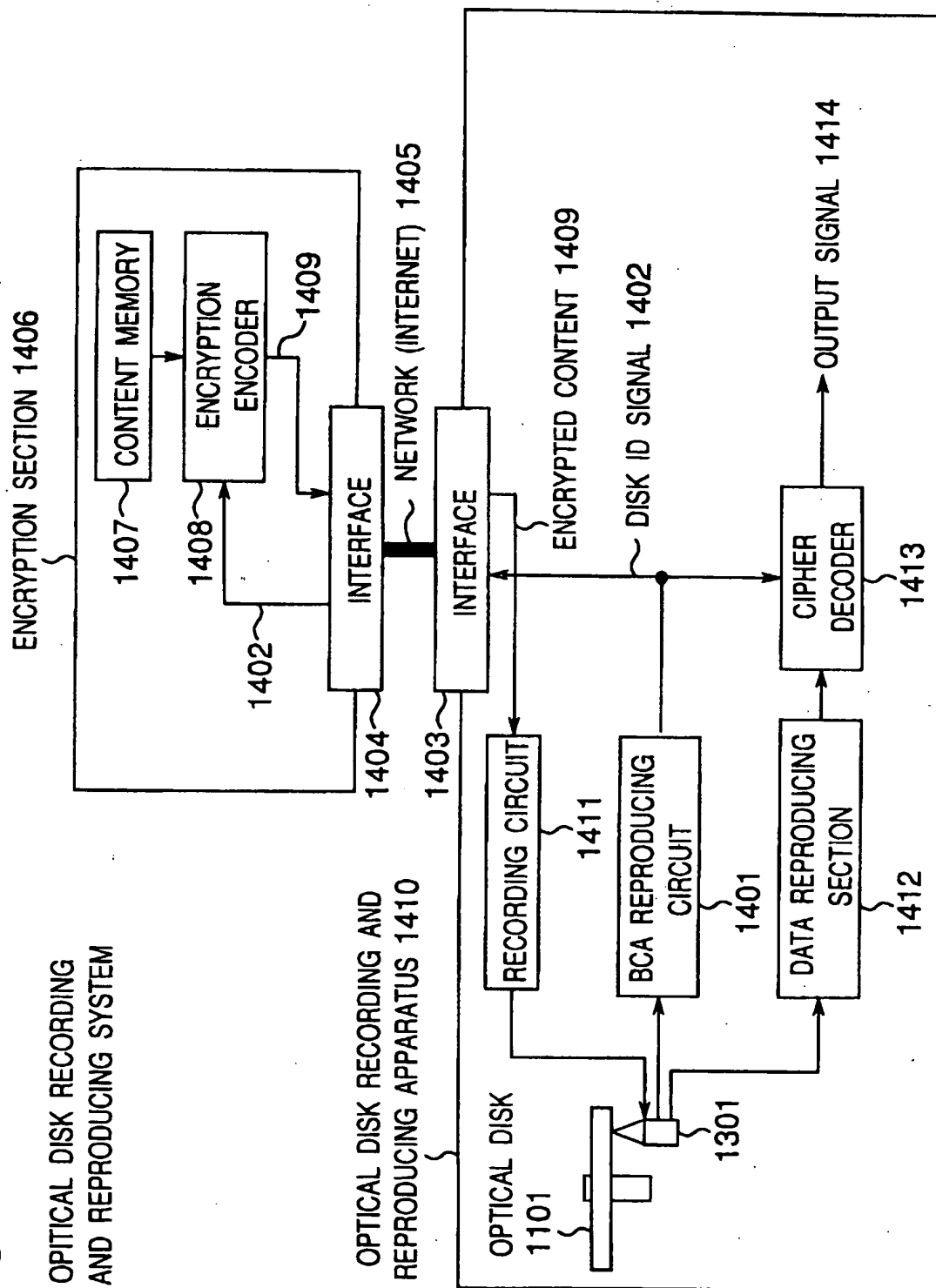


Fig.19

OPTICAL DISK RECORDING AND REPRODUCING SYSTEM



FOURTH PREFERRED EMBODIMENT
OPTICAL DISK RECORDING AND REPRODUCING SYSTEM
CATV COMPANY APPARATUS 1501

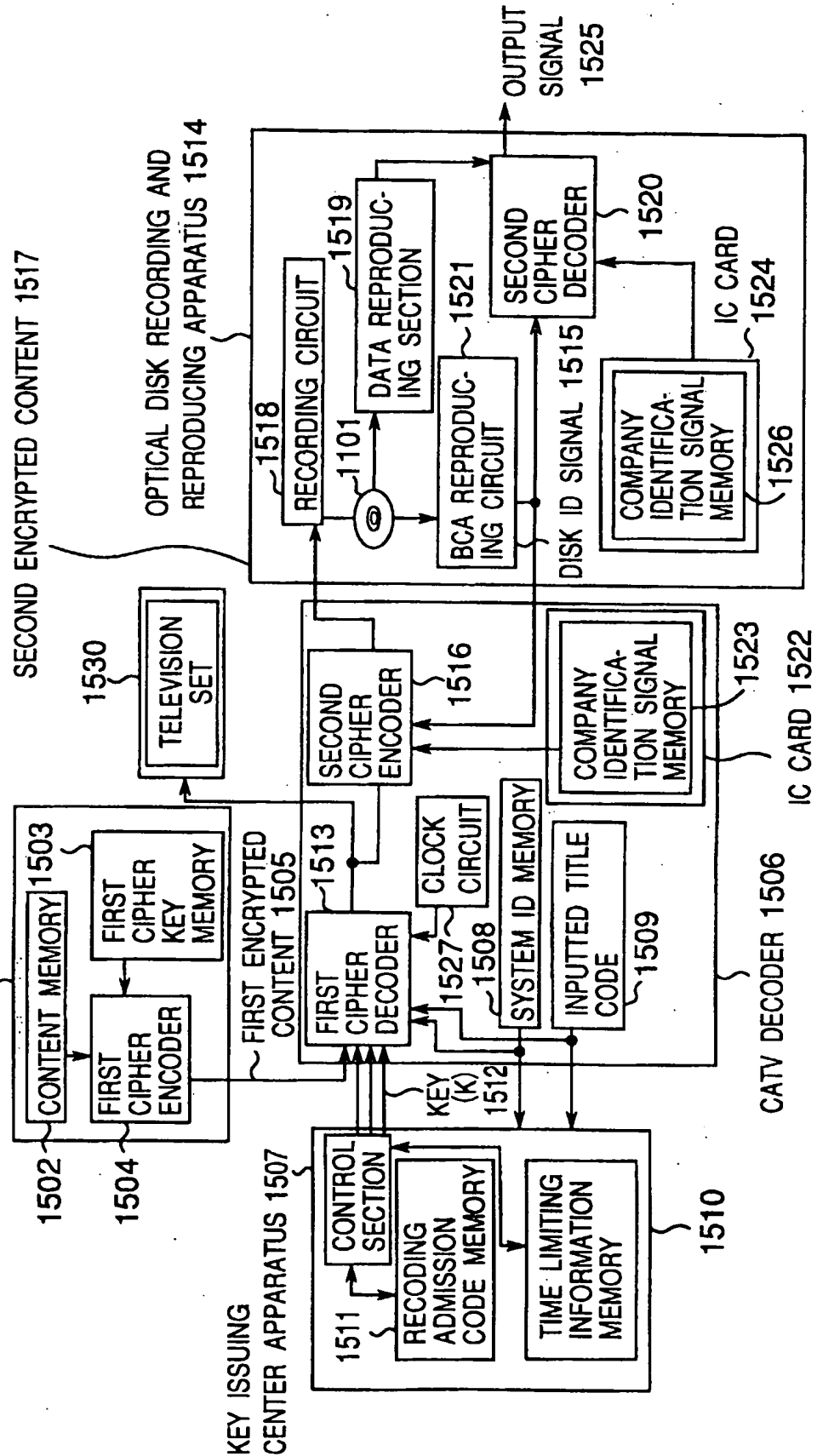


Fig.21

FIFTH PREFERRED EMBODIMENT

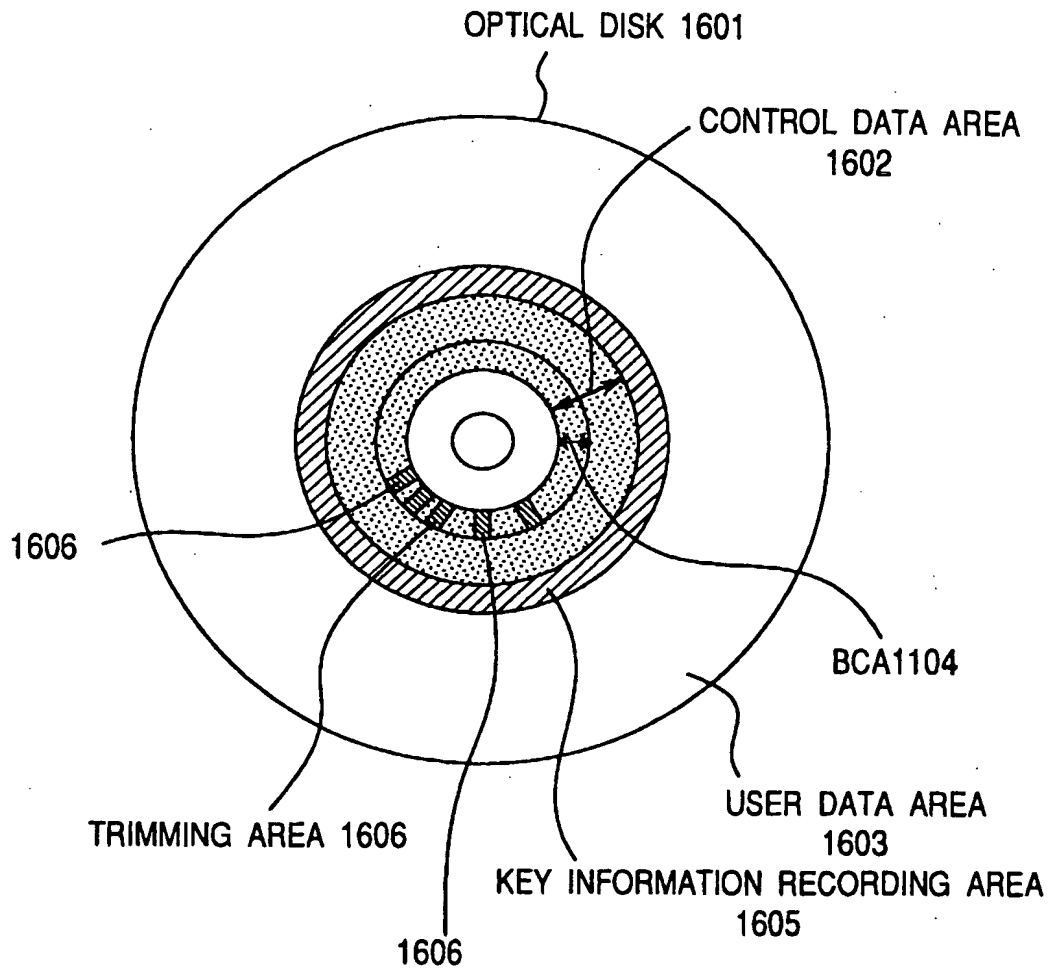
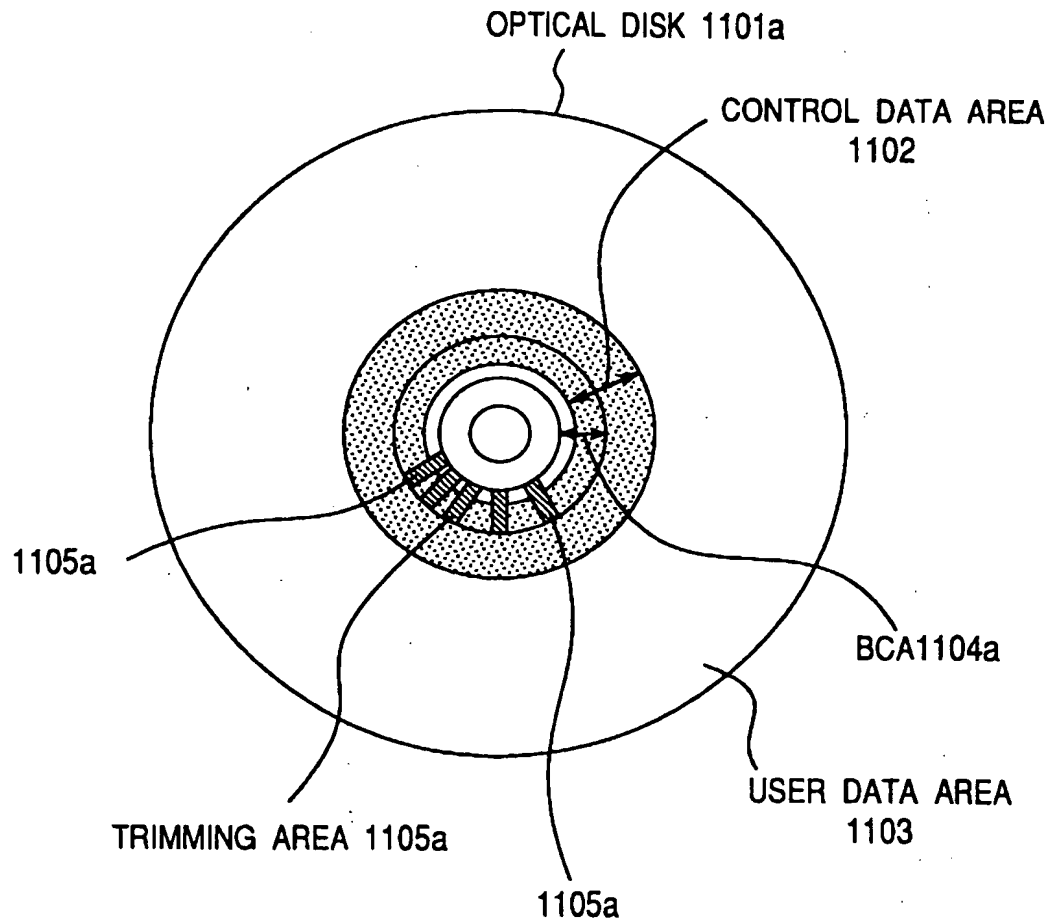


TABLE WITH ID

TITLE CODE T	T1	T2	T3
FIRST DECIPHER KEY FK	FK1	FK2	FK3
TIME LIMITING INFORMATION TIME	TIME1	TIME2	TIME3
SYSTEM ID	DID1	K11	K12
	DID2	K21	K22
	DID3	K23	K32
DISK ID	BCAS1	DK11	DK12
	BCAS2	DK21	DK22
	BCAS3	DK31	DK32

Fig.24

MODIFIED THIRD PREFERRED EMBODIMENT



008270-89509560

Fig.25

MODIFIED FIFTH PREFERRED EMBODIMENT

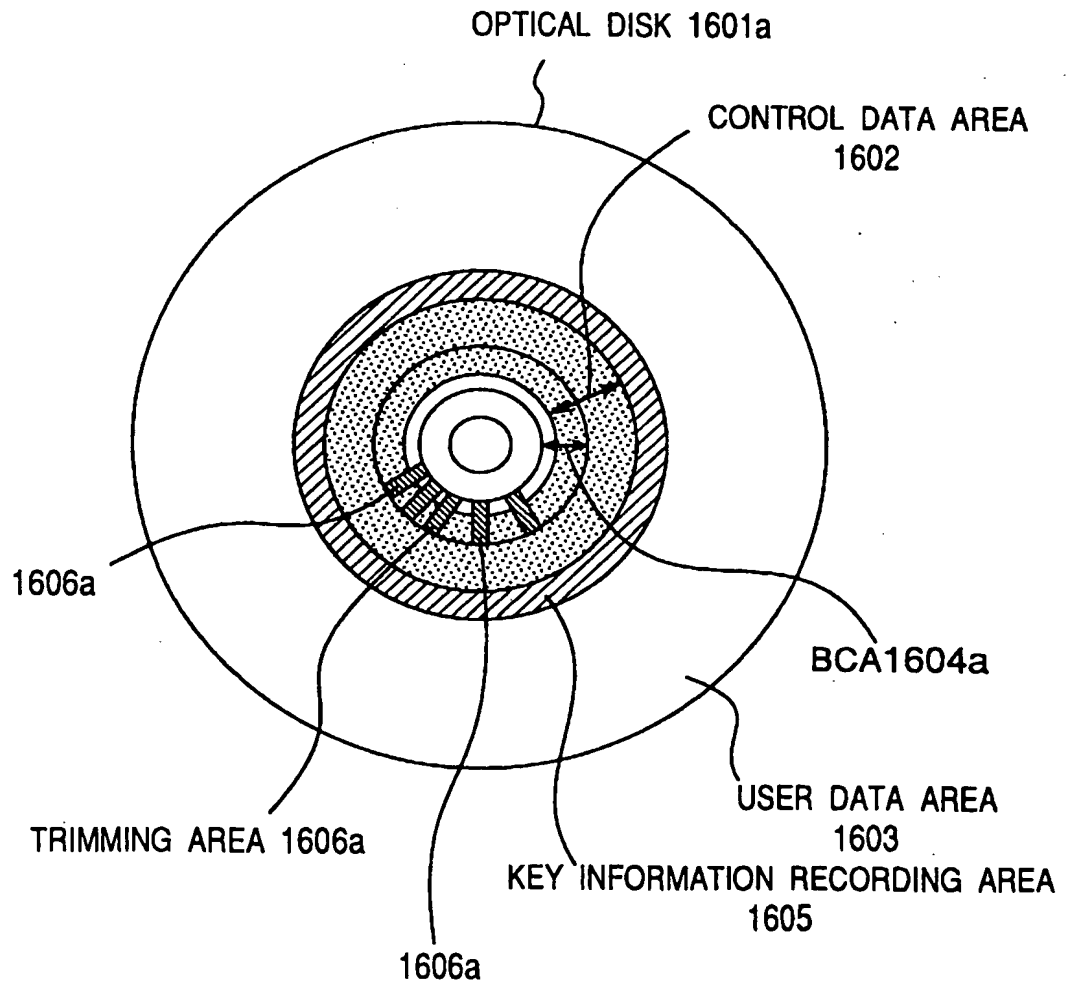


Fig. 26

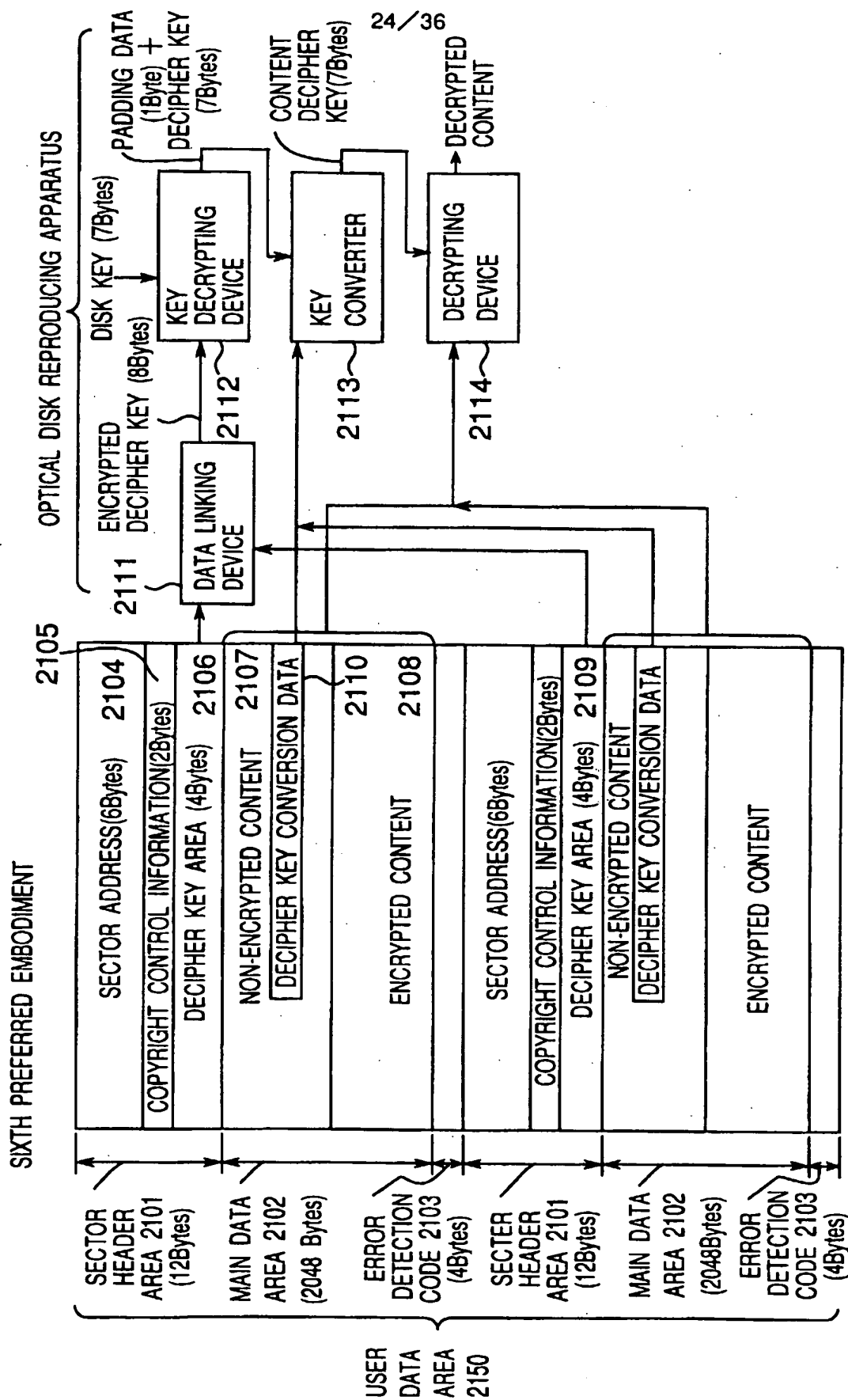


Fig.27

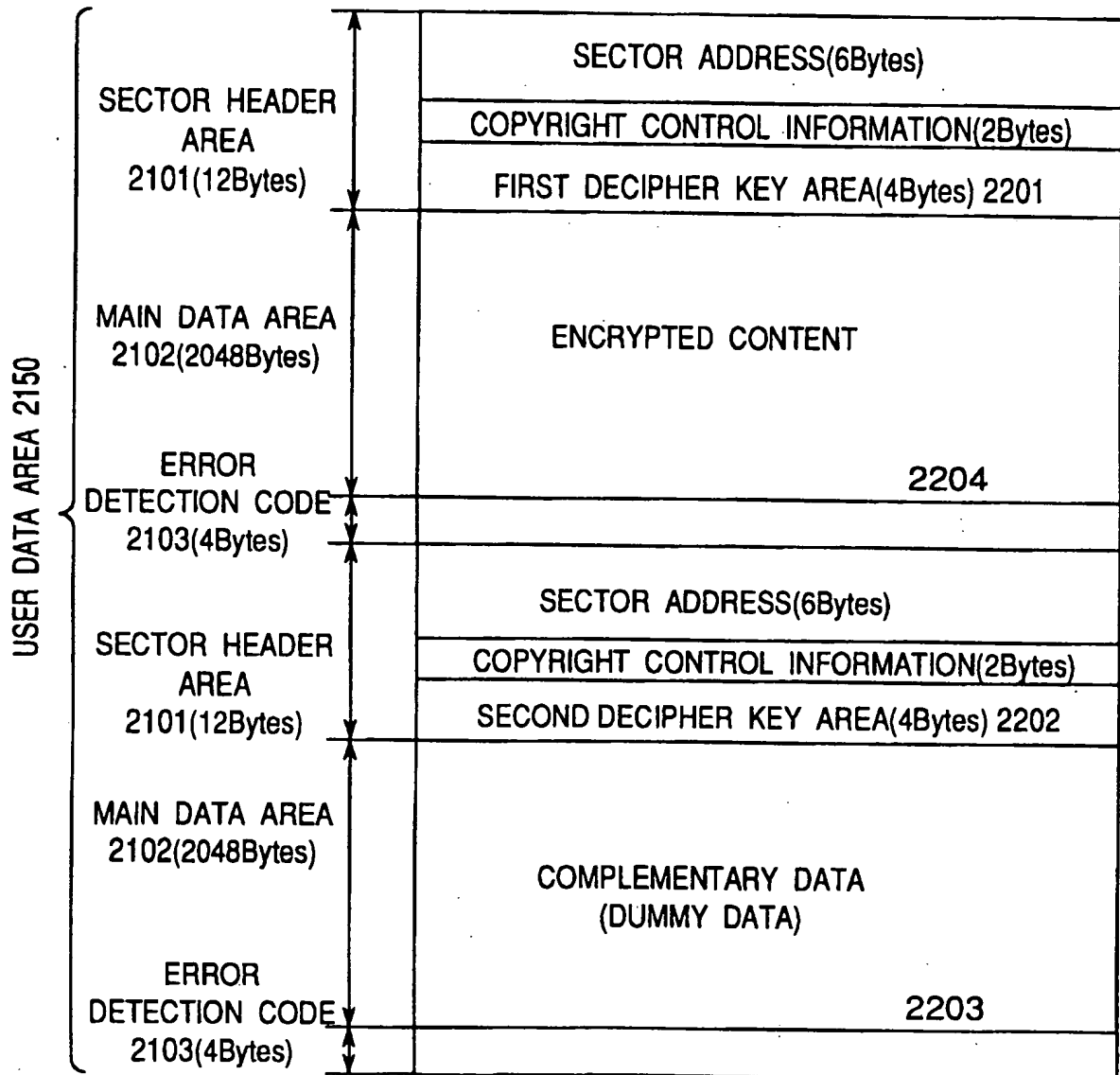
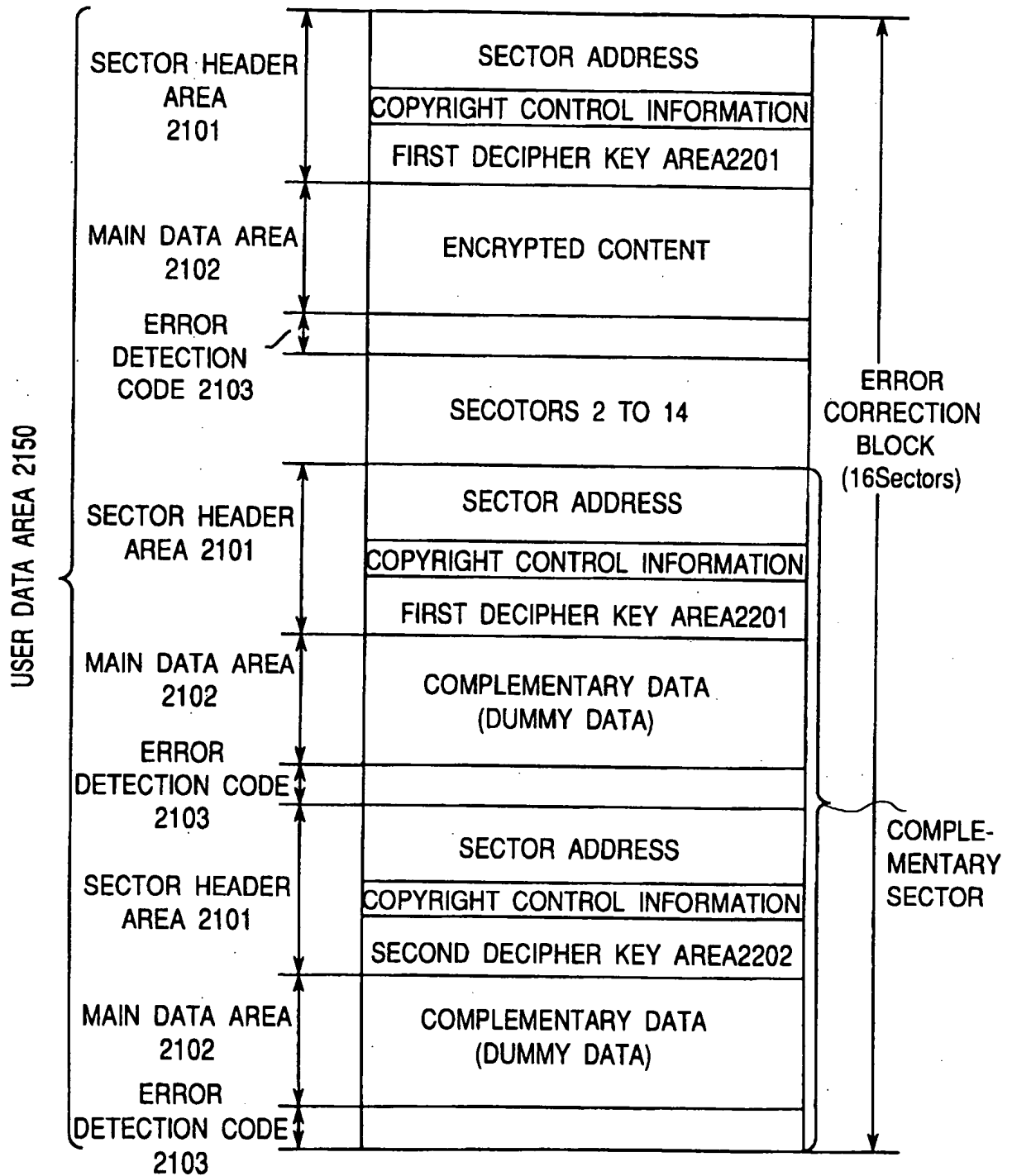


Fig.28



SEVENTH PREFERRED EMBODIMENT

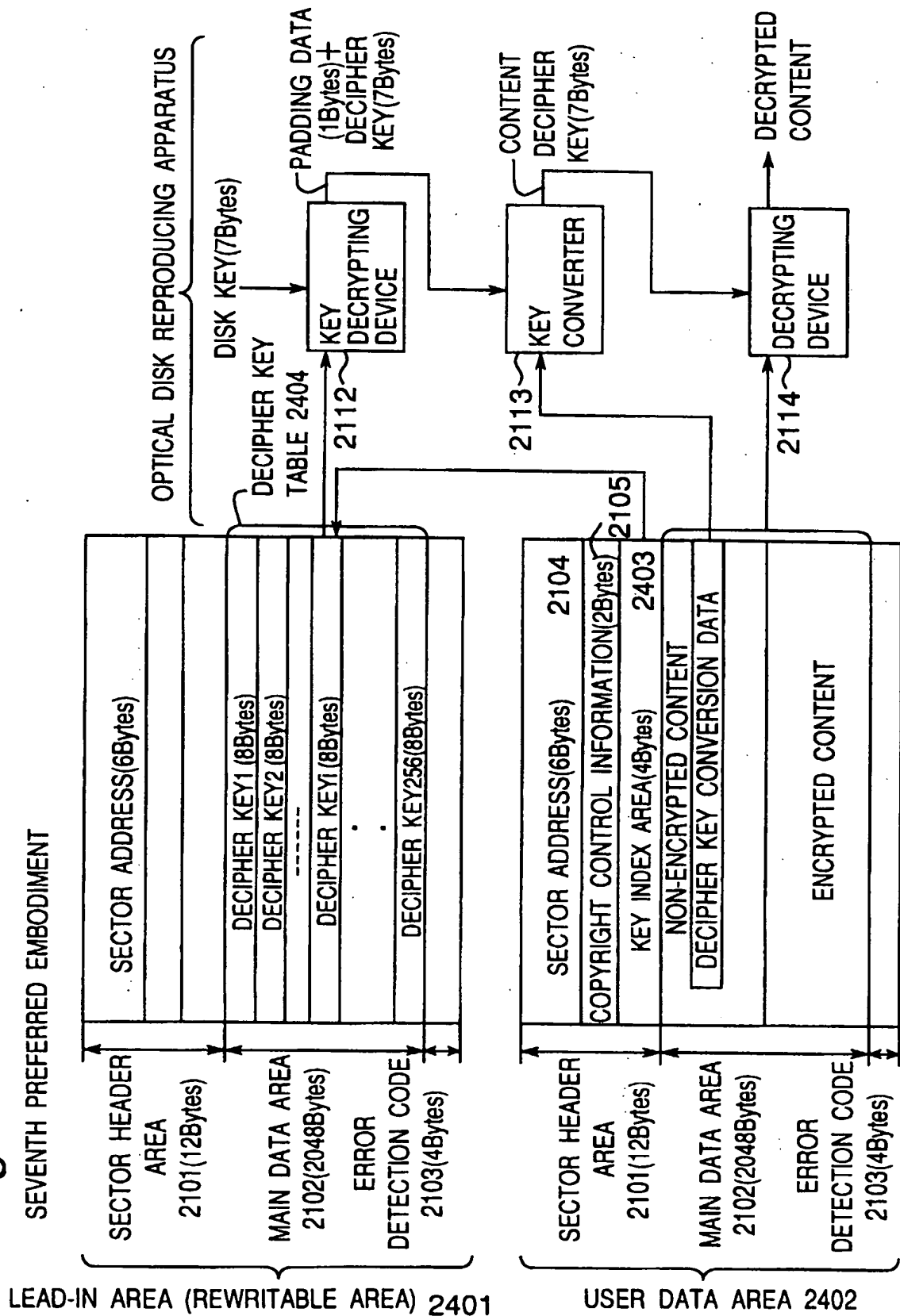


Fig.30A

REPRESENTATION OF NON-RECORDED STATUS WITH INITIAL VALUE OF DECIPHER KEY

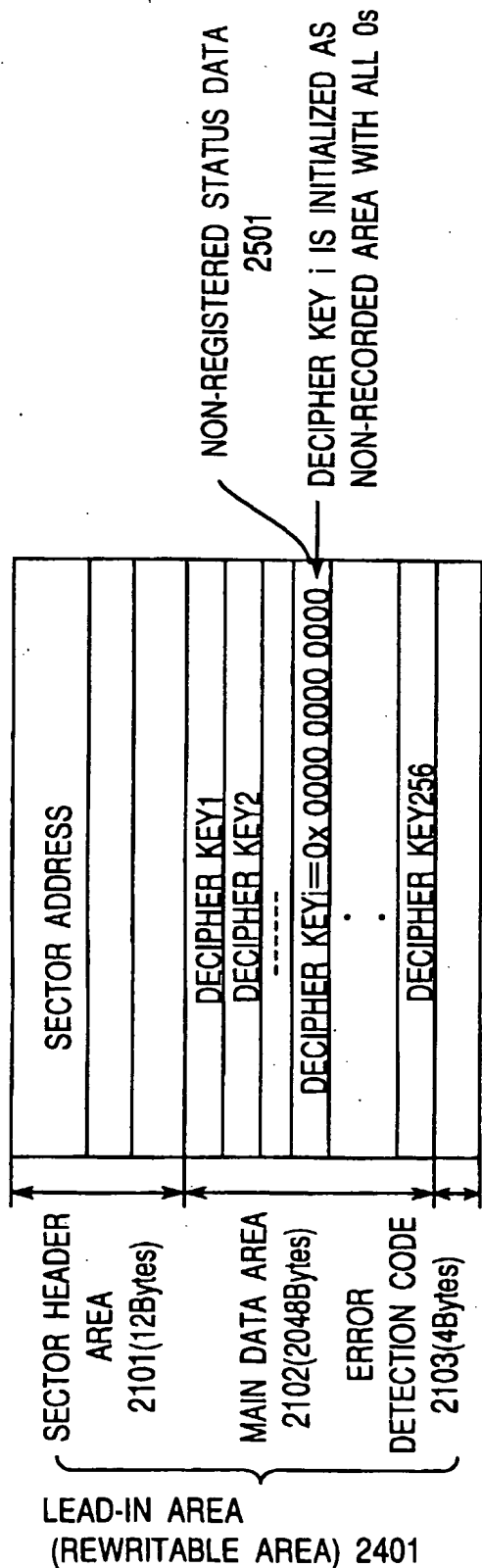


Fig.30B

REPRESENTATION OF RECORDED STATUS WITH DECIPHER KEY STATUS TABLE

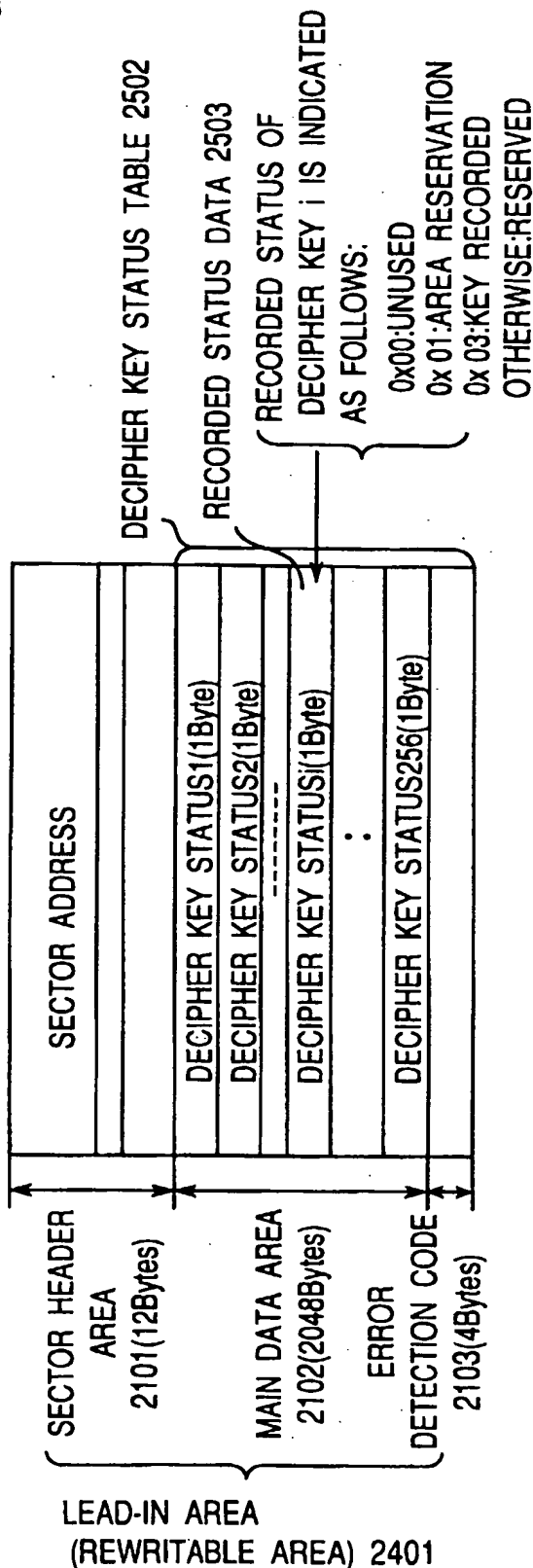


Fig.31

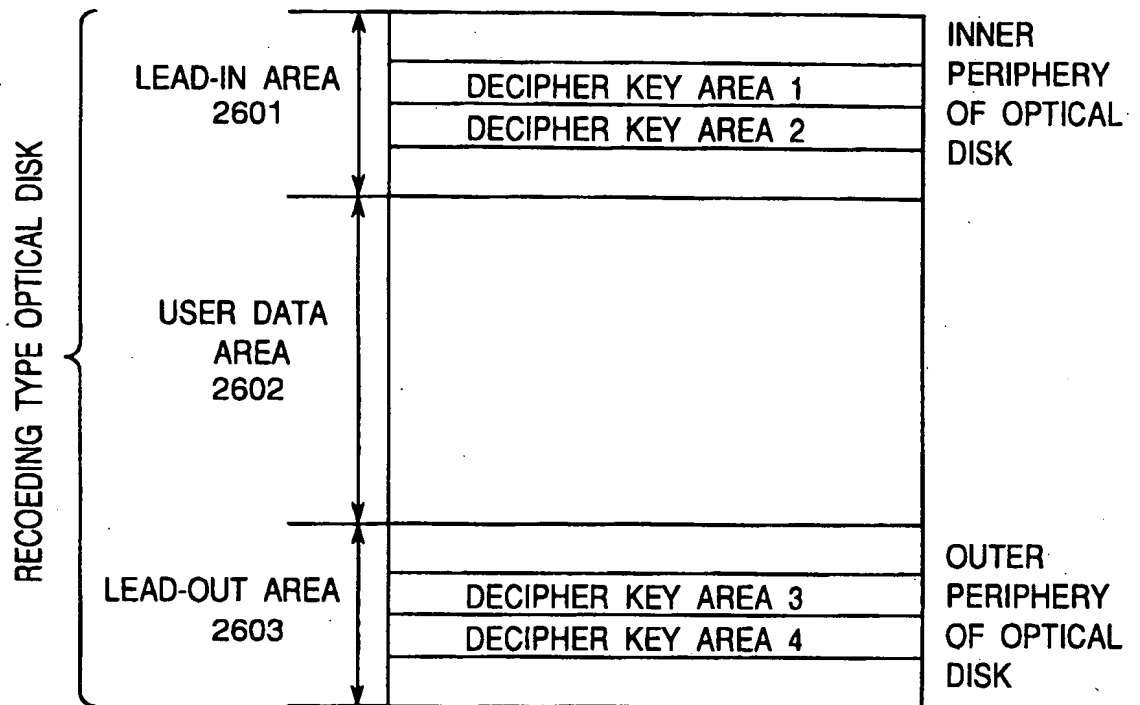


Fig.33

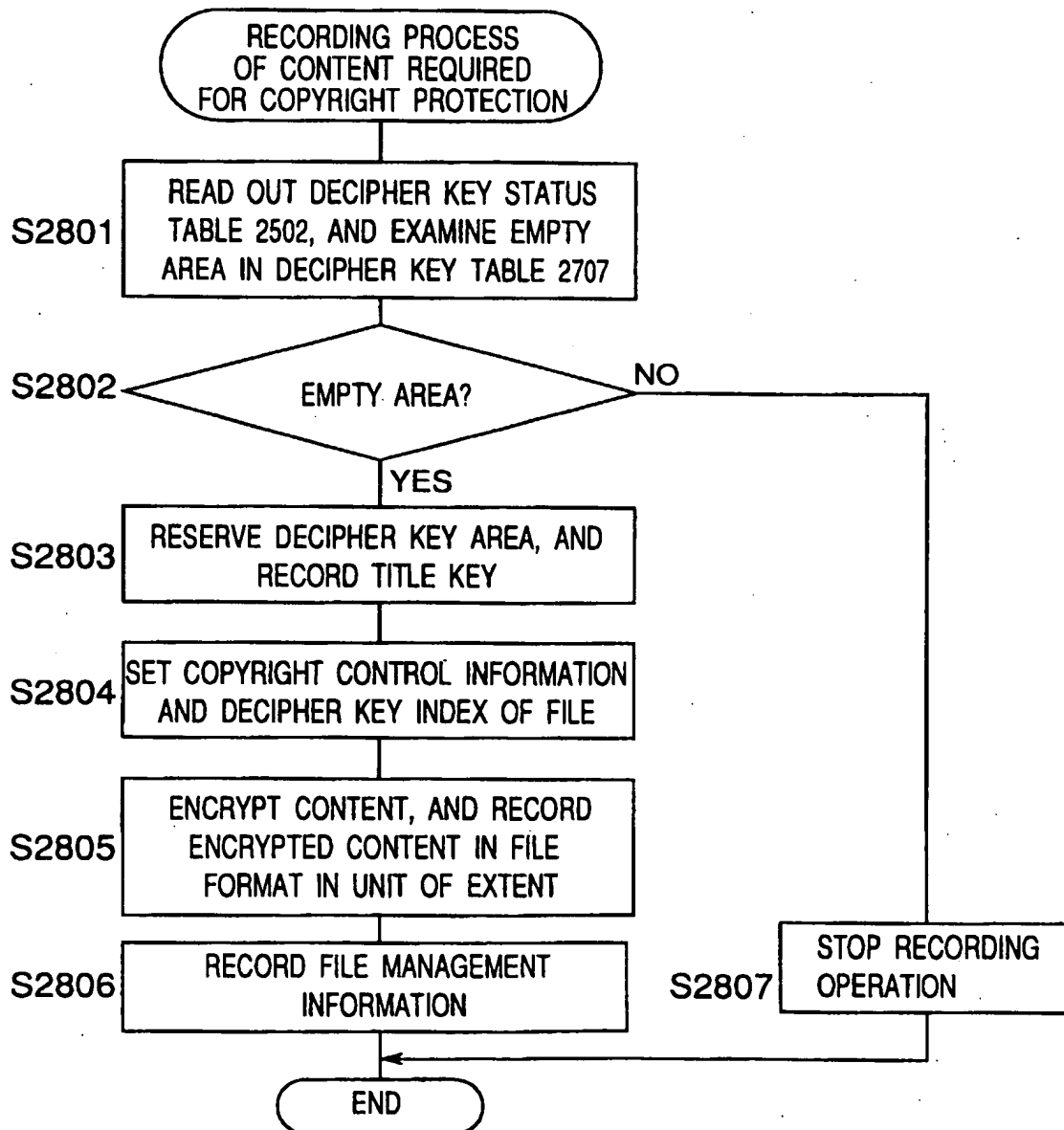
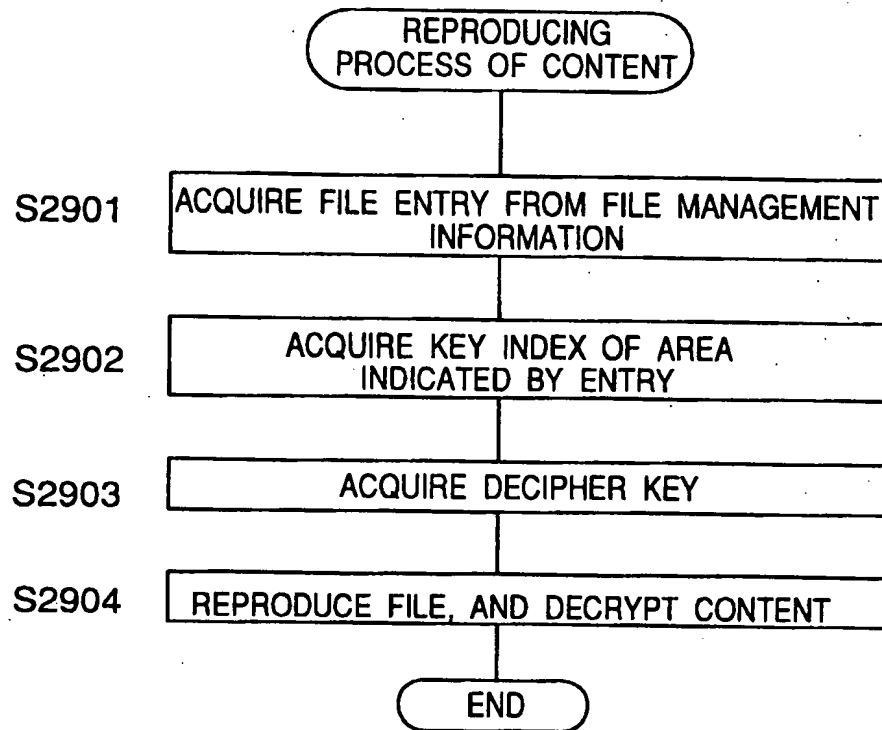


Fig.34*Fig.35*